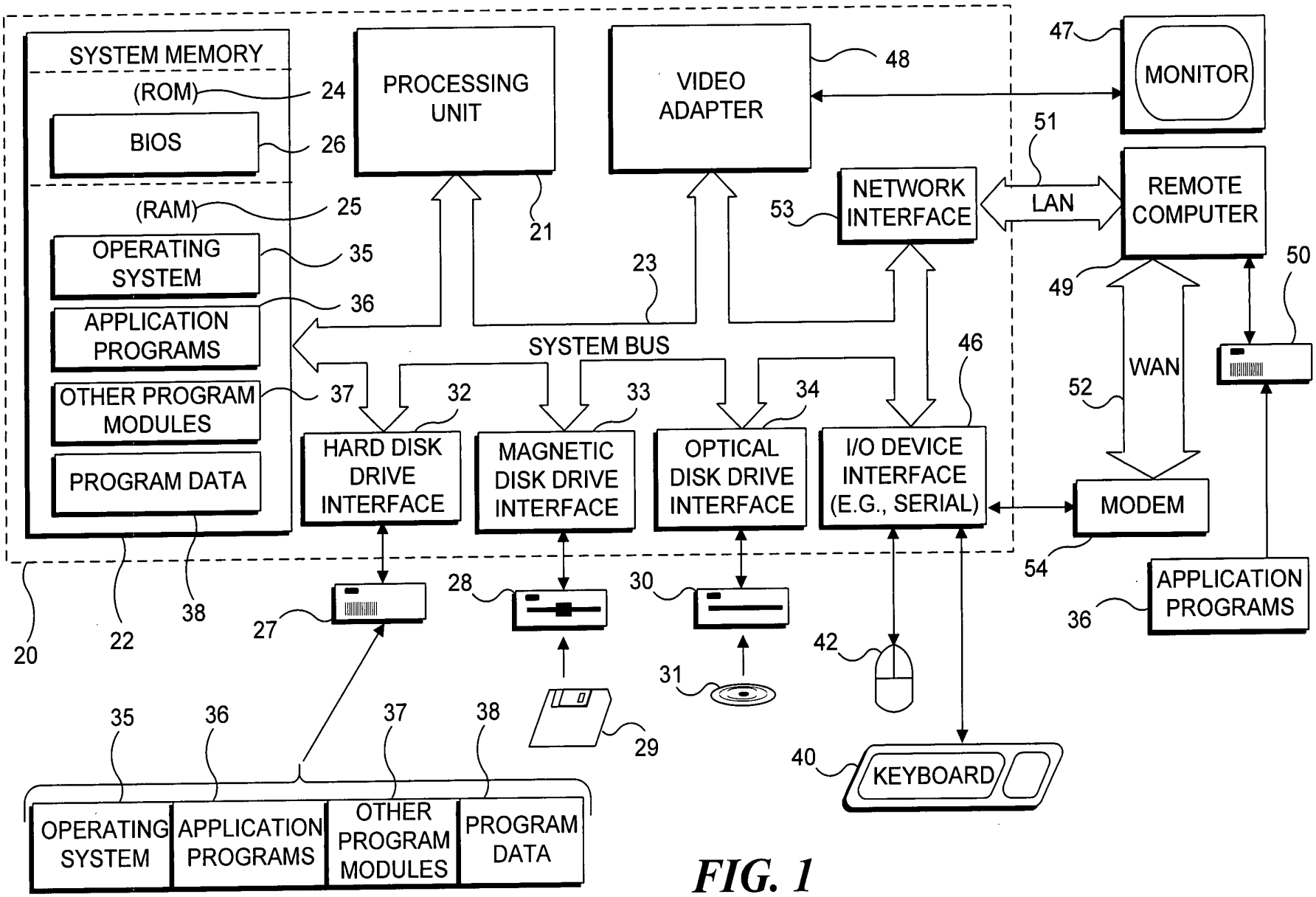
SYSTEM MEMORY
(ROM)
24
BIOS
26
(RAM)
25
OPERATING SYSTEM
35
APPLICATION PROGRAMS
36
OTHER PROGRAM MODULES
37
PROGRAM DATA
PROCESSING UNIT
21
VIDEO ADAPTER
48
47
MONITOR
51
NETWORK INTERFACE
53
LAN
REMOTE COMPUTER
49
50
23
SYSTEM BUS
46
WAN
52
32
33
34
HARD DISK DRIVE INTERFACE
MAGNETIC DISK DRIVE INTERFACE
OPTICAL DISK DRIVE INTERFACE
I/O DEVICE INTERFACE (E.G., SERIAL)
MODEM
54
APPLICATION PROGRAMS
36
20
22
38
27
28
30
42
31
29
35
36
37
38
40
KEYBOARD
OPERATING SYSTEM
APPLICATION PROGRAMS
OTHER PROGRAM MODULES
PROGRAM DATA

FIG. 1

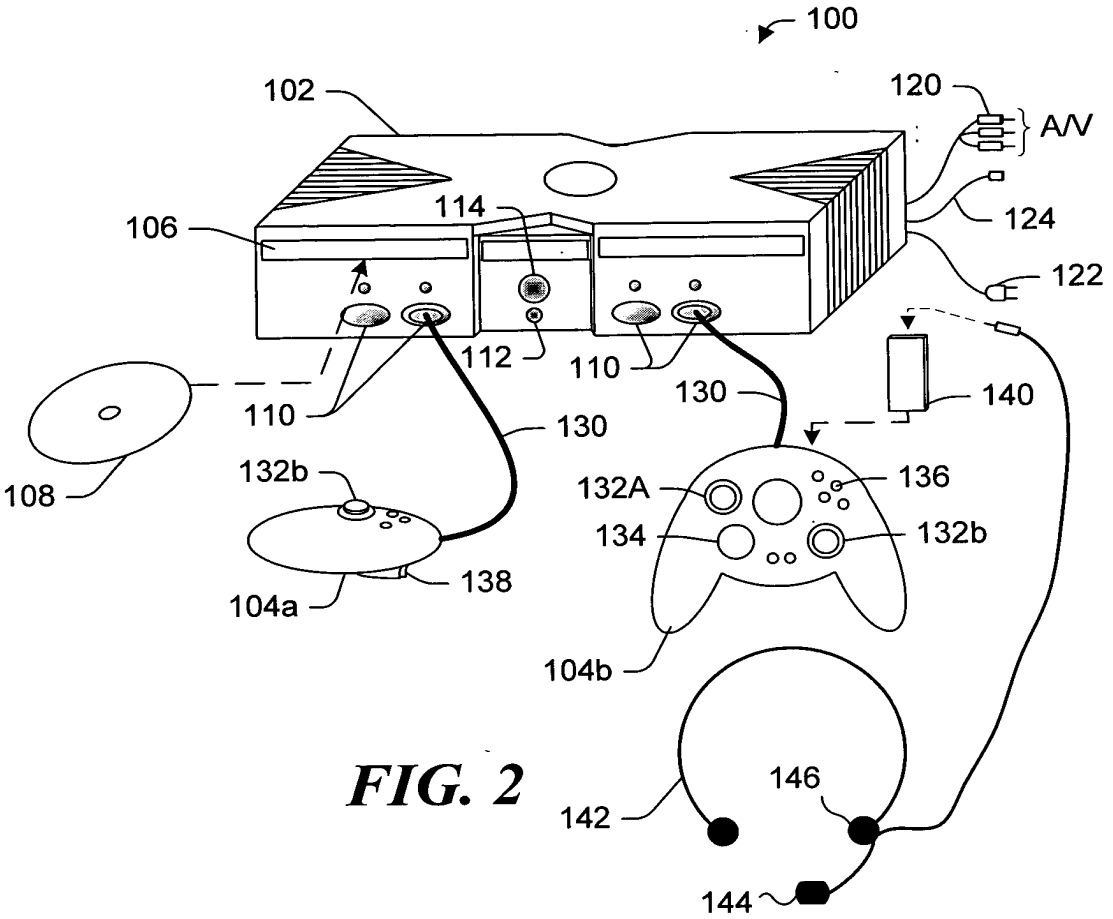
100
102
120
A/V
124
122
106
114
112
110
110
130
140
130
108
132b
132A
136
134
132b
138
104a
104b

FIG. 2

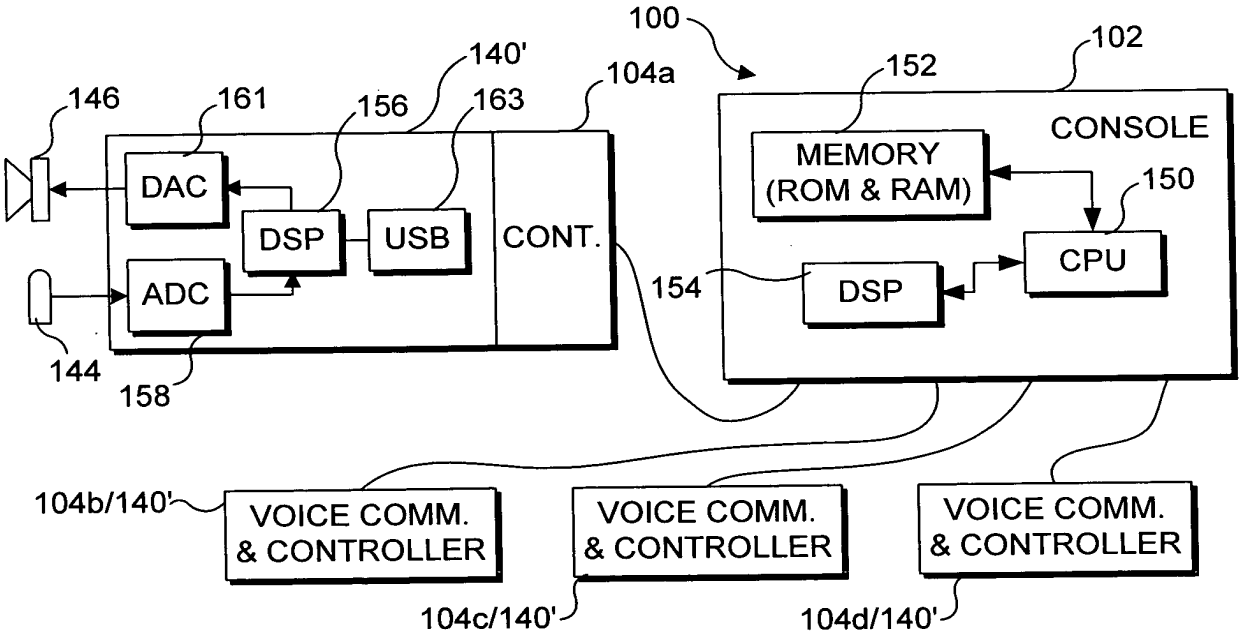
142
146
144
100
102
152
CONSOLE
MEMORY
(ROM & RAM)
150
CPU
154
DSP
104a
140'
146
161
156
163
DAC
DSP
USB
CONT.
ADC
144
158
104b/140'
VOICE COMM.
& CONTROLLER
104c/140'
VOICE COMM.
& CONTROLLER
104d/140'
VOICE COMM.
& CONTROLLER

FIG. 3

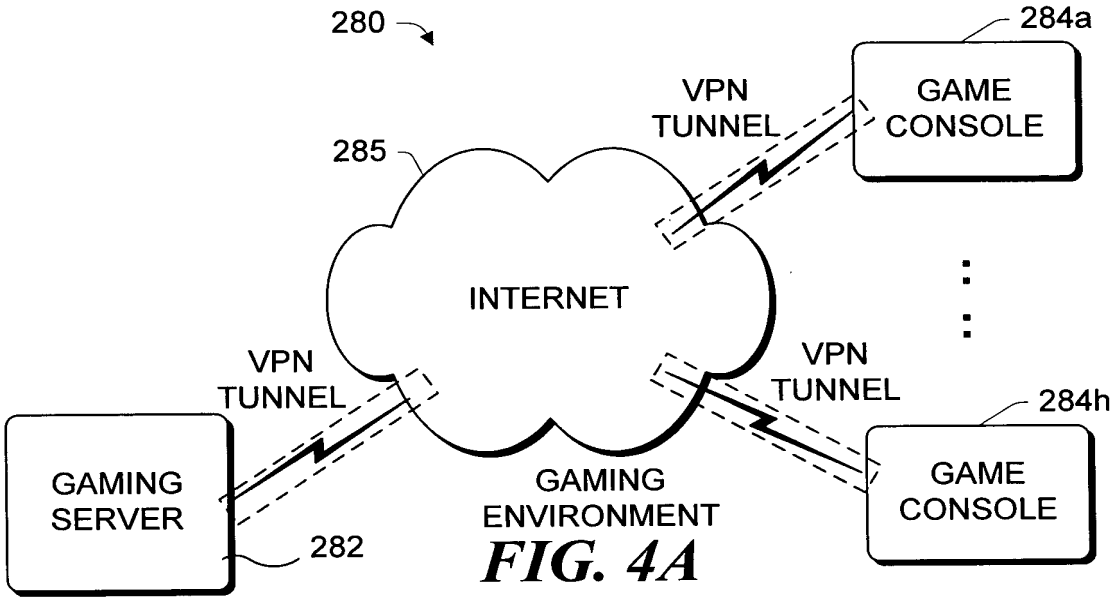
280
284a
GAME CONSOLE
VPN TUNNEL
285
INTERNET
VPN TUNNEL
VPN TUNNEL
284h
GAME CONSOLE
GAMING SERVER
GAMING ENVIRONMENT
282

FIG. 4A

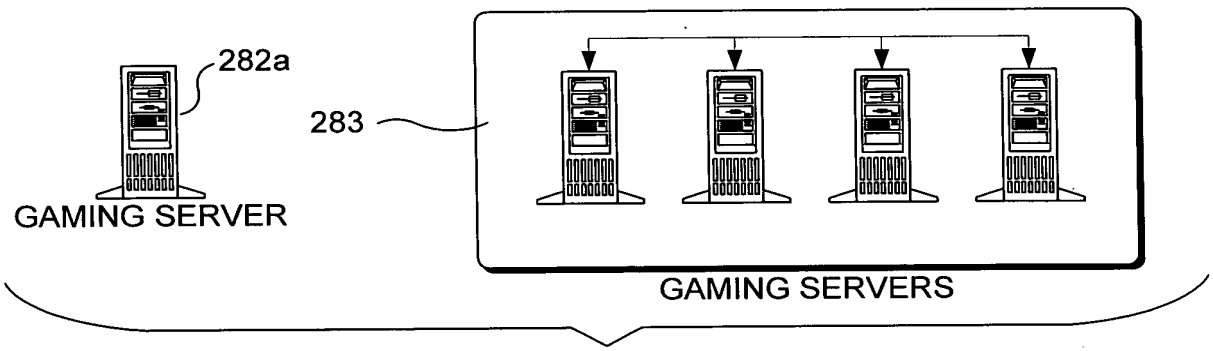
282a
283
GAMING SERVER
GAMING SERVERS

FIG. 4B

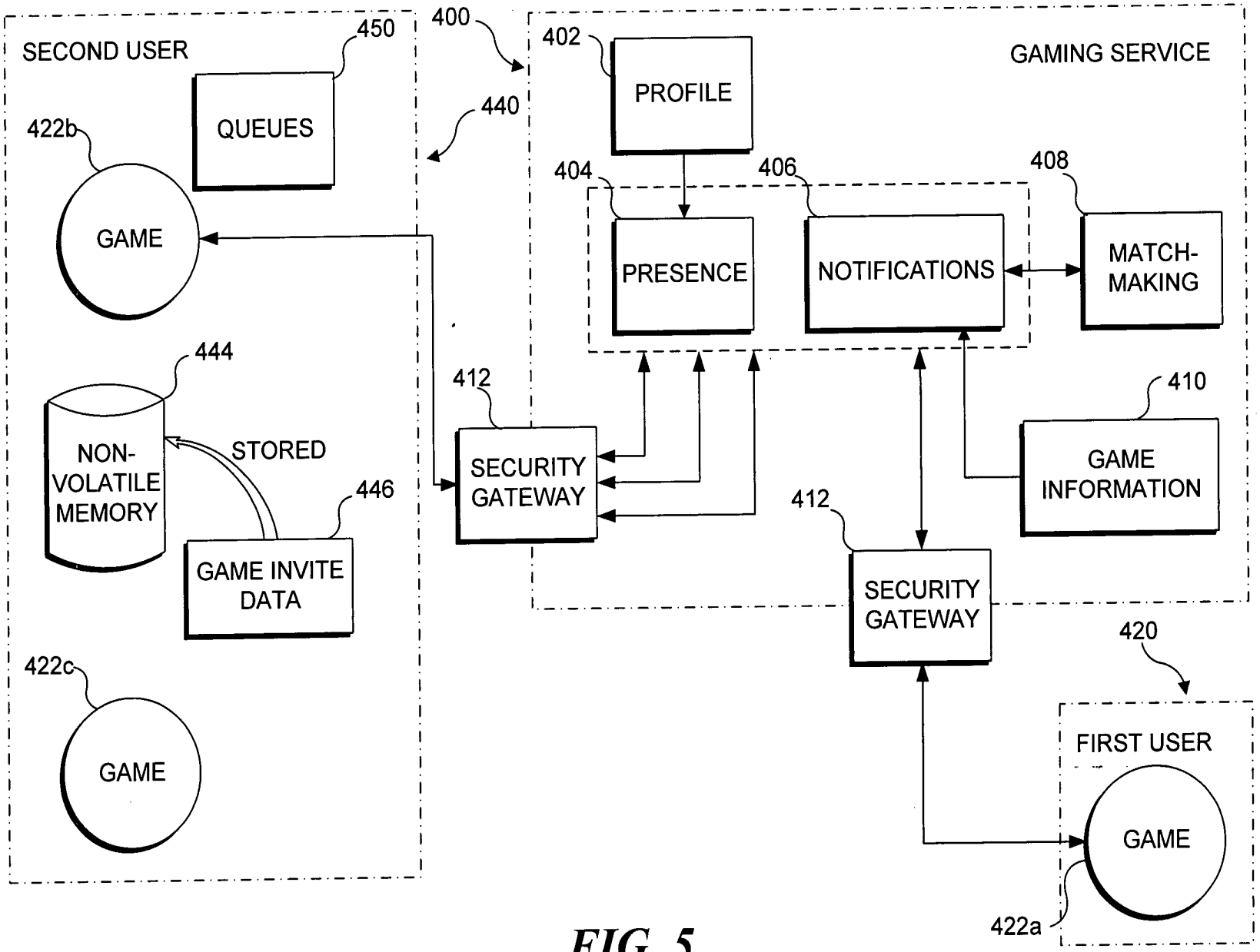
SECOND USER
450
QUEUES
422b
GAME
444
NON-VOLATILE MEMORY
STORED
446
GAME INVITE DATA
422c
GAME
400
440
402
PROFILE
GAMING SERVICE
404
406
408
PRESENCE
NOTIFICATIONS
MATCH-MAKING
412
SECURITY GATEWAY
410
GAME INFORMATION
412
SECURITY GATEWAY
420
FIRST USER
GAME
422a

FIG. 5

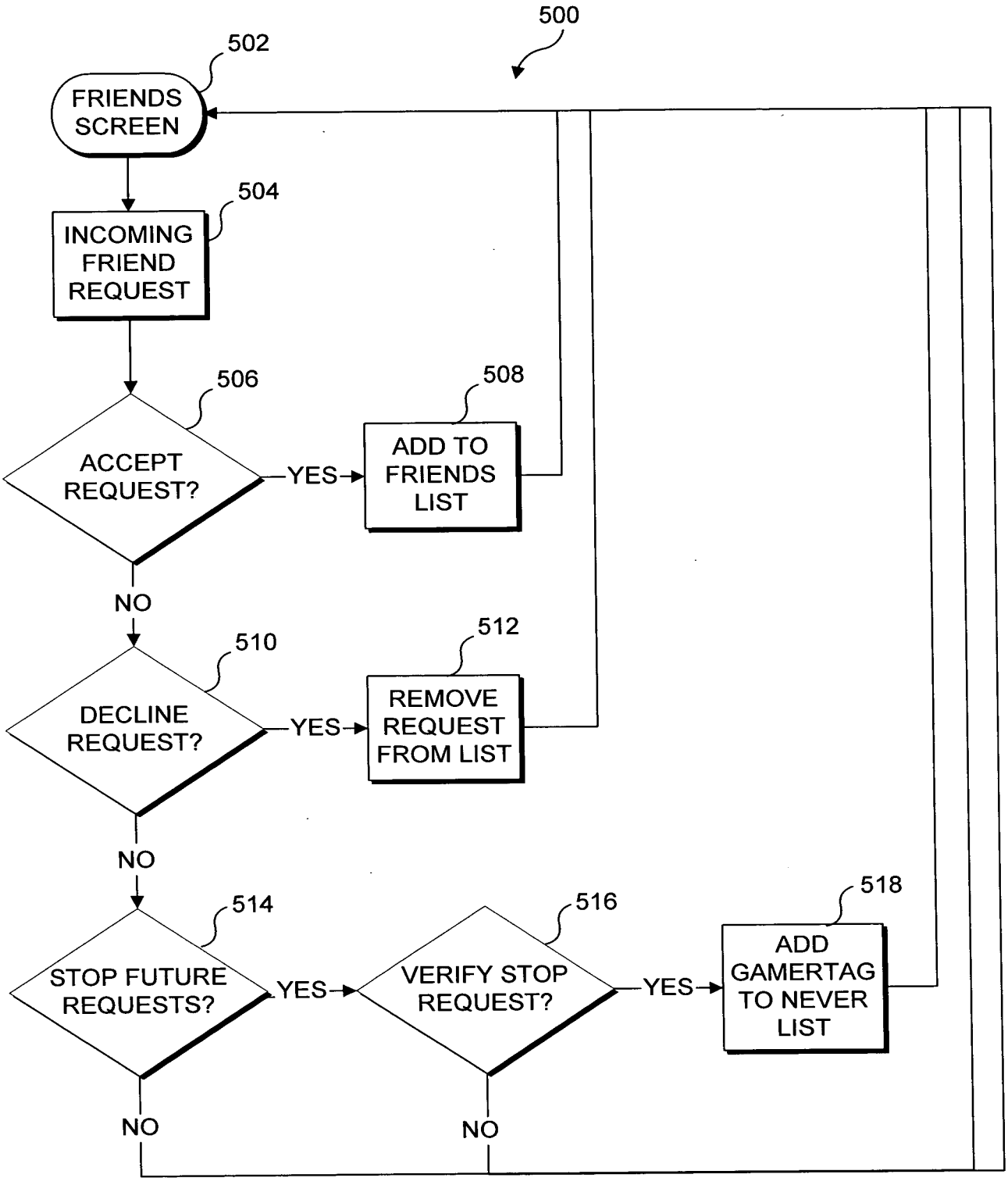
500
502
FRIENDS SCREEN
504
INCOMING FRIEND REQUEST
506
ACCEPT REQUEST?
YES
508
ADD TO FRIENDS LIST
NO
510
DECLINE REQUEST?
YES
512
REMOVE REQUEST FROM LIST
NO
514
STOP FUTURE REQUESTS?
YES
516
VERIFY STOP REQUEST?
YES
518
ADD GAMERTAG TO NEVER LIST
NO
NO

FIG. 6

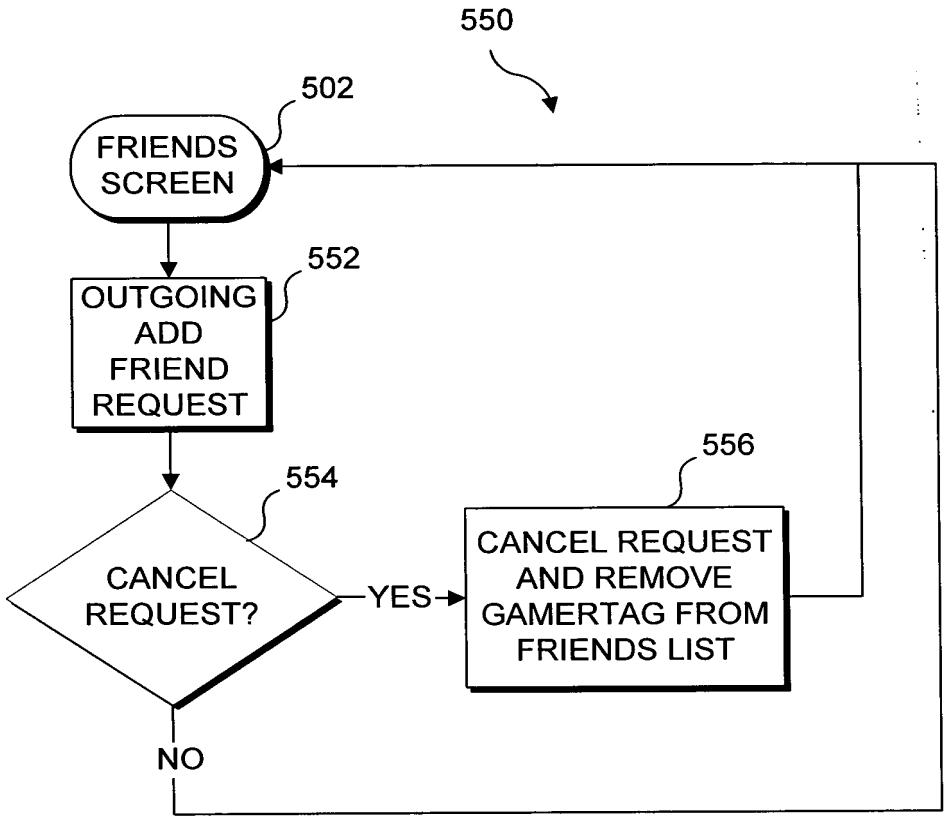
550
502
FRIENDS SCREEN
552
OUTGOING ADD FRIEND REQUEST
554
CANCEL REQUEST?
YES
556
CANCEL REQUEST AND REMOVE GAMERTAG FROM FRIENDS LIST
NO

FIG. 7

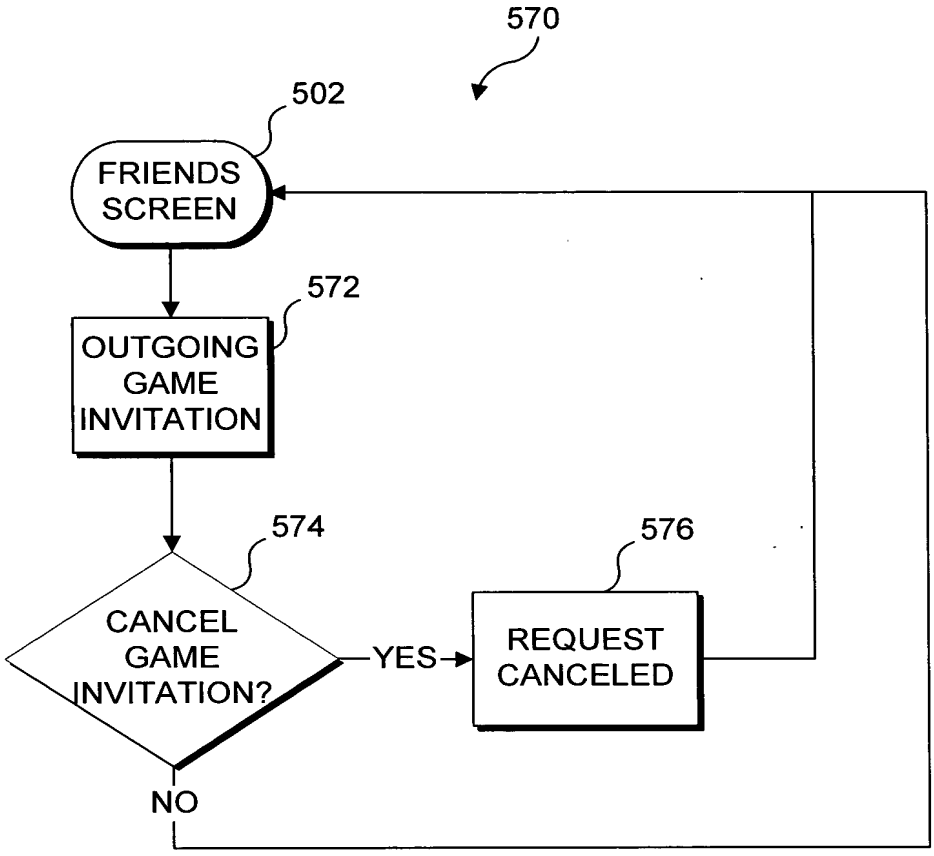
570
502
FRIENDS SCREEN
572
OUTGOING GAME INVITATION
574
CANCEL GAME INVITATION?
YES
576
REQUEST CANCELED
NO

FIG. 8

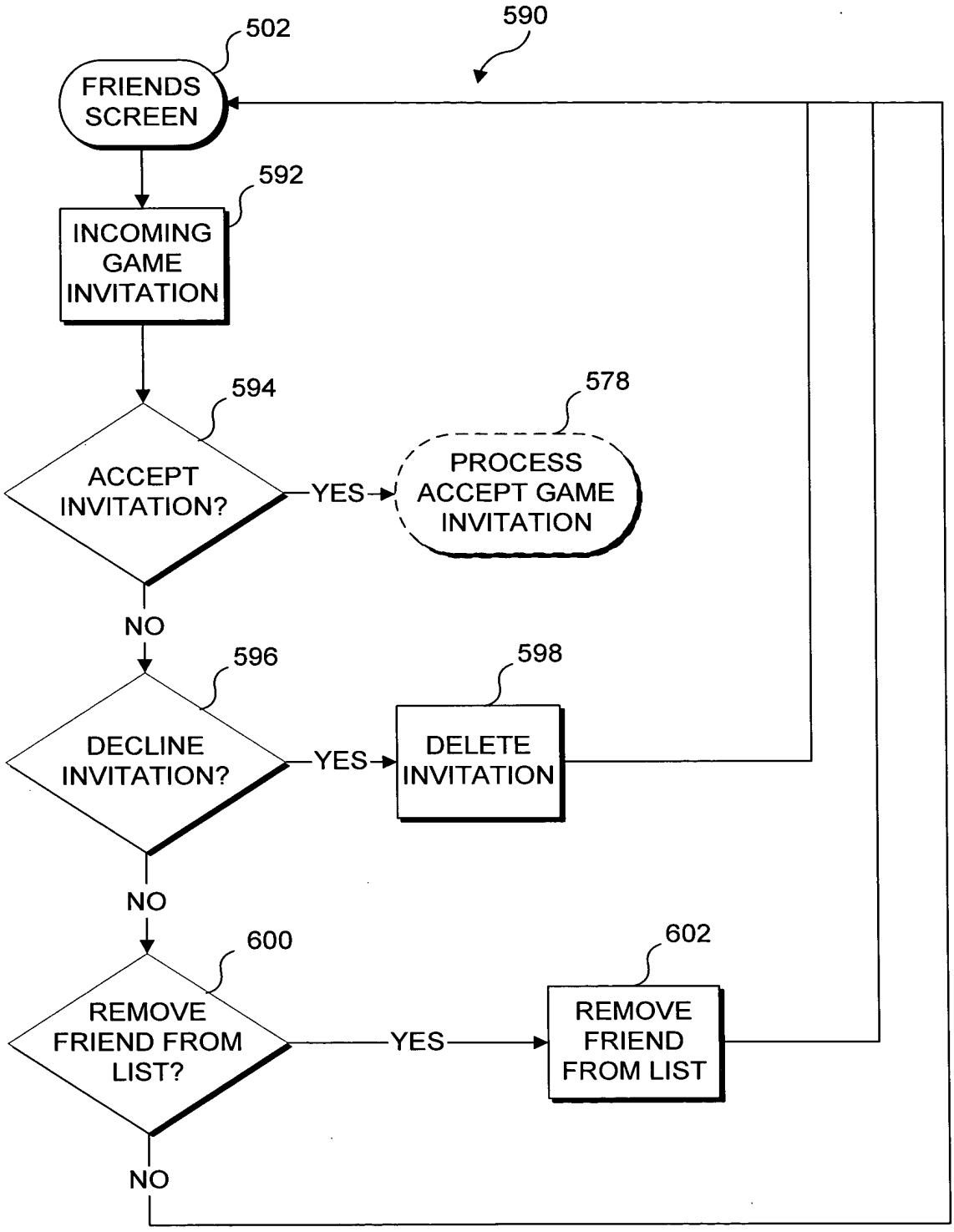
590
502
FRIENDS SCREEN
592
INCOMING GAME INVITATION
594
ACCEPT INVITATION?
YES
578
PROCESS ACCEPT GAME INVITATION
NO
596
DECLINE INVITATION?
YES
598
DELETE INVITATION
NO
600
REMOVE FRIEND FROM LIST?
YES
602
REMOVE FRIEND FROM LIST
NO

FIG. 9

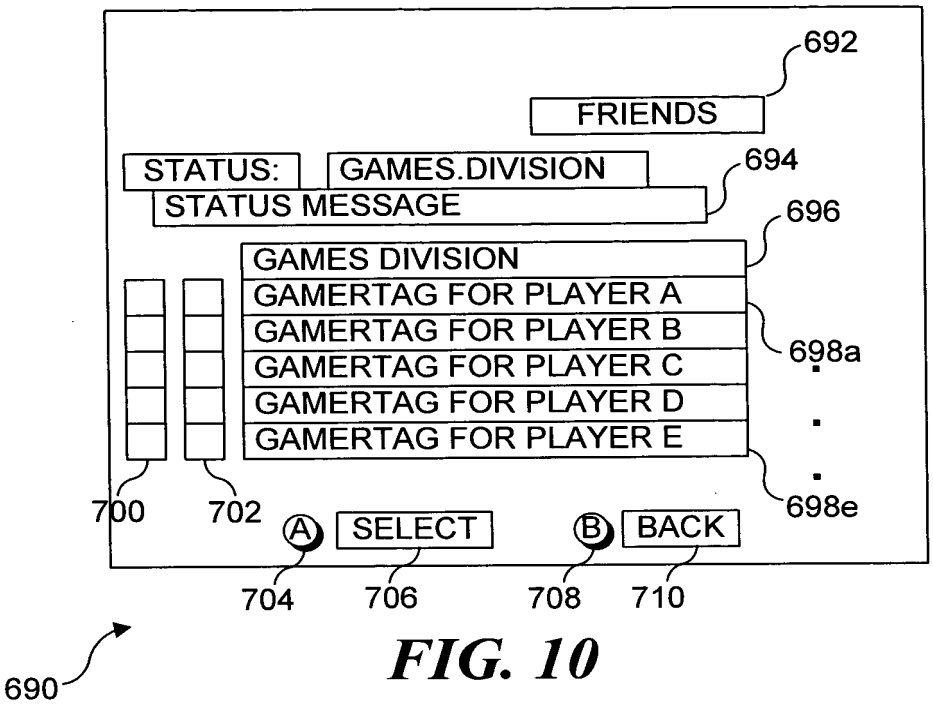

FIG. 10

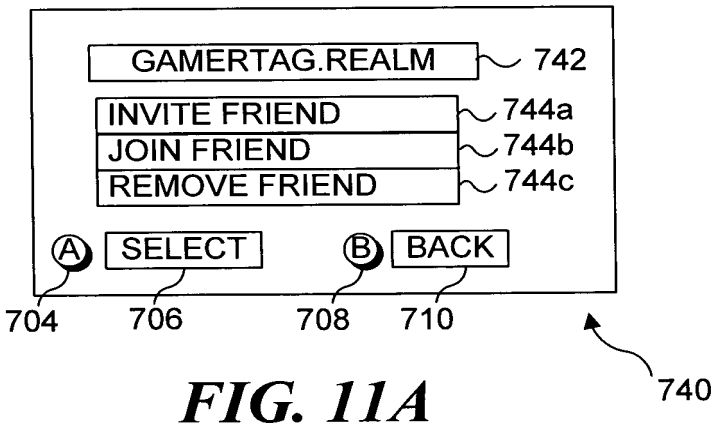

FIG. 11A

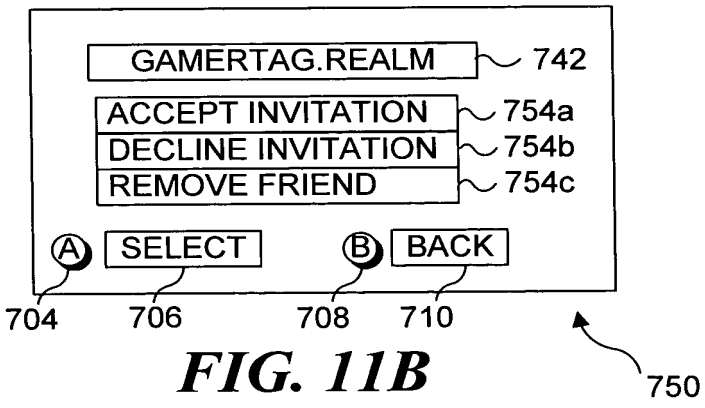

FIG. 11B

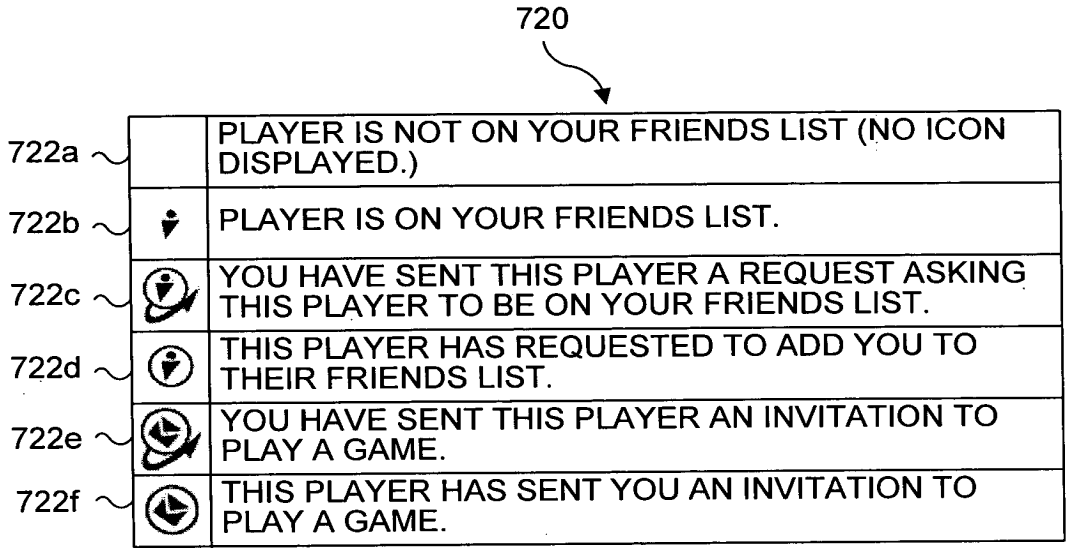
720
722a
PLAYER IS NOT ON YOUR FRIENDS LIST (NO ICON DISPLAYED.)
722b
PLAYER IS ON YOUR FRIENDS LIST.
722c
YOU HAVE SENT THIS PLAYER A REQUEST ASKING THIS PLAYER TO BE ON YOUR FRIENDS LIST.
722d
THIS PLAYER HAS REQUESTED TO ADD YOU TO THEIR FRIENDS LIST.
722e
YOU HAVE SENT THIS PLAYER AN INVITATION TO PLAY A GAME.
722f
THIS PLAYER HAS SENT YOU AN INVITATION TO PLAY A GAME.

FIG. 12

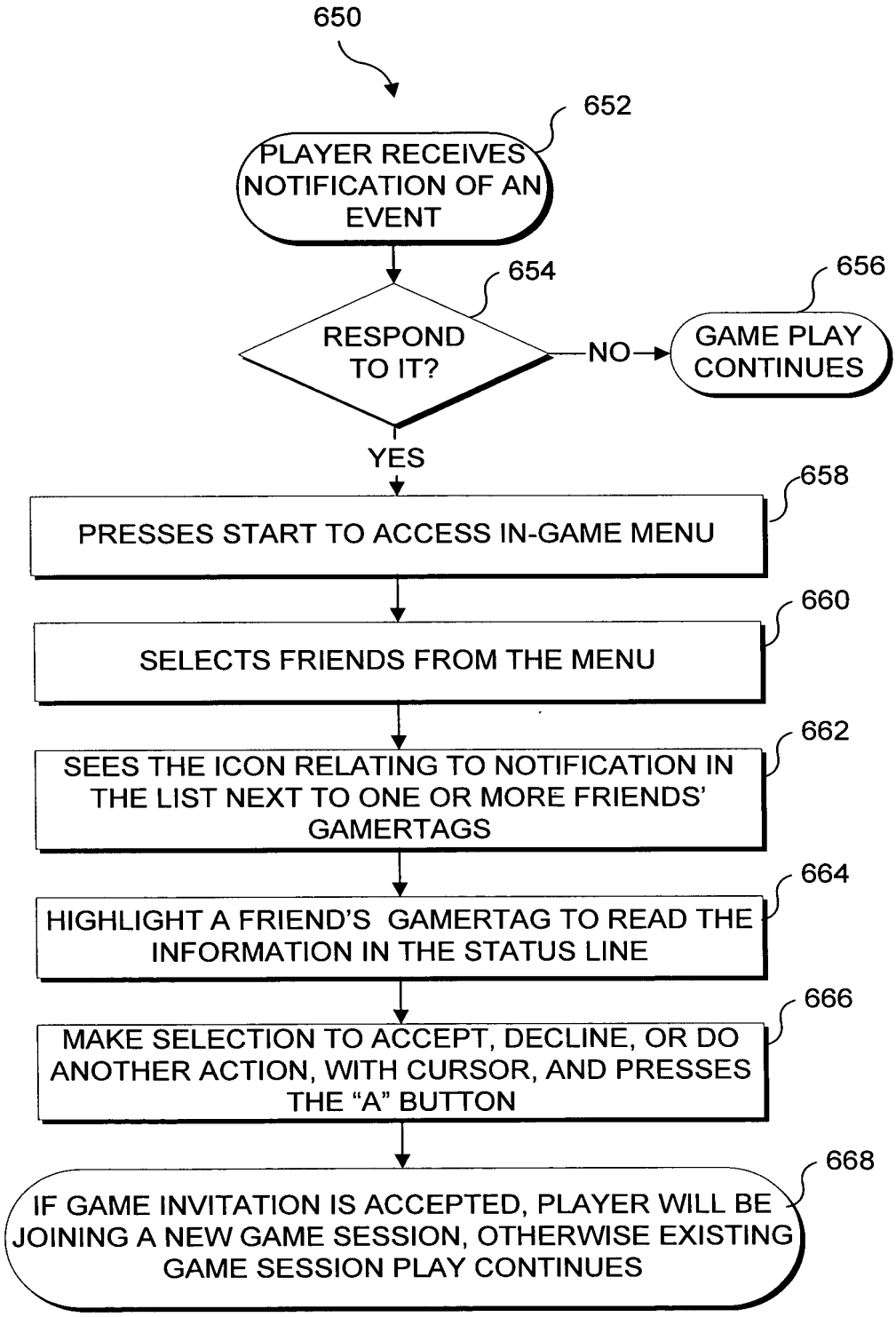
650
652
PLAYER RECEIVES NOTIFICATION OF AN EVENT
654
RESPOND TO IT?
NO
656
GAME PLAY CONTINUES
YES
658
PRESSES START TO ACCESS IN-GAME MENU
660
SELECTS FRIENDS FROM THE MENU
662
SEES THE ICON RELATING TO NOTIFICATION IN THE LIST NEXT TO ONE OR MORE FRIENDS' GAMERTAGS
664
HIGHLIGHT A FRIEND'S GAMERTAG TO READ THE INFORMATION IN THE STATUS LINE
666
MAKE SELECTION TO ACCEPT, DECLINE, OR DO ANOTHER ACTION, WITH CURSOR, AND PRESSES THE "A" BUTTON
668
IF GAME INVITATION IS ACCEPTED, PLAYER WILL BE JOINING A NEW GAME SESSION, OTHERWISE EXISTING GAME SESSION PLAY CONTINUES

FIG. 13